

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/517, 563
Source: PCT
Date Processed by STIC: 09/12/2005

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 09/12/2005

PATENT APPLICATION: US/10/517,563

TIME: 13:20:40

Input Set : A:\57738454.app

Output Set: N:\CRF4\09122005\J517563.raw

```

3 <110> APPLICANT: STEINESS, EVA
5 <120> TITLE OF INVENTION: GLP-1 AND METHODS FOR TREATING DIABETES
7 <130> FILE REFERENCE: 57738(45487)
9 <140> CURRENT APPLICATION NUMBER: 10/517,563
C--> 10 <141> CURRENT FILING DATE: 2005-07-08
12 <150> PRIOR APPLICATION NUMBER: PCT/DK03/000463
13 <151> PRIOR FILING DATE: 2003-07-02
15 <150> PRIOR APPLICATION NUMBER: 60/465,613
16 <151> PRIOR FILING DATE: 2003-04-24
18 <150> PRIOR APPLICATION NUMBER: 60/393,917
19 <151> PRIOR FILING DATE: 2002-07-04
21 <160> NUMBER OF SEQ ID NOS: 23
23 <170> SOFTWARE: PatentIn Ver. 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 31
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
32   1           5           10           15
34 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
35           20           25           30
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 21
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
45 primer
47 <400> SEQUENCE: 2
48 aacccaccca ggcttttgtc a                               21
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 23
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
58 primer
60 <400> SEQUENCE: 3
61 cttcctccca cgtccagttg ttc                               23
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 29
66 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 09/12/2005

PATENT APPLICATION: US/10/517,563

TIME: 13:20:40

Input Set : A:\57738454.app

Output Set: N:\CRF4\09122005\J517563.raw

```

67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
71     primer
73 <400> SEQUENCE: 4
74 aggctctcta cctggtgtgt ggggagcgt                29
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 44
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
84     peptide
86 <400> SEQUENCE: 5
87 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
88   1                      5                      10                      15
90 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
91                20                25                30
93 Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys Lys
94   35                40
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 36
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
104     GLP-1 variant
106 <400> SEQUENCE: 6
107 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
108   1                      5                      10                      15
110 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys
111                20                25                30
113 Lys Lys Lys Lys
114   35
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 42
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
124     GLP-1 variant
126 <400> SEQUENCE: 7
127 Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Val
128   1                      5                      10                      15
130 Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu
131                20                25                30
133 Val Lys Gly Arg Lys Lys Lys Lys Lys Lys
134   35                40
137 <210> SEQ ID NO: 8

```

RAW SEQUENCE LISTING

DATE: 09/12/2005

PATENT APPLICATION: US/10/517,563

TIME: 13:20:40

Input Set : A:\57738454.app

Output Set: N:\CRF4\09122005\J517563.raw

```

138 <211> LENGTH: 36
139 <212> TYPE: PRT
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
144     GLP-1 variant
146 <400> SEQUENCE: 8
147 Lys Lys Lys Lys Lys Lys His Gly Glu Gly Thr Phe Thr Ser Asp Val
148   1             5             10             15
150 Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu
151             20             25             30
153 Val Lys Gly Arg
154             35
157 <210> SEQ ID NO: 9
158 <211> LENGTH: 37
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
164     GLP-1 variant
166 <220> FEATURE:
167 <221> NAME/KEY: MOD_RES
168 <222> LOCATION: (31)
169 <223> OTHER INFORMATION: Lys(palmitoyl)
171 <400> SEQUENCE: 9
172 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
173   1             5             10             15
175 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys
176             20             25             30
178 Lys Lys Lys Lys Lys
179             35
182 <210> SEQ ID NO: 10
183 <211> LENGTH: 36
184 <212> TYPE: PRT
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
189     GLP-1 variant
191 <220> FEATURE:
192 <221> NAME/KEY: MOD_RES
193 <222> LOCATION: (20)
194 <223> OTHER INFORMATION: Lys(palmitoyl)
196 <400> SEQUENCE: 10
197 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
198   1             5             10             15
200 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys
201             20             25             30
203 Lys Lys Lys Lys
204             35

```

RAW SEQUENCE LISTING

DATE: 09/12/2005

PATENT APPLICATION: US/10/517,563

TIME: 13:20:40

Input Set : A:\57738454.app

Output Set: N:\CRF4\09122005\J517563.raw

```

207 <210> SEQ ID NO: 11
208 <211> LENGTH: 36
209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
214     GLP-1 variant
216 <220> FEATURE:
217 <221> NAME/KEY: MOD_RES
218 <222> LOCATION: (28)
219 <223> OTHER INFORMATION: Lys (palmitoyl)
221 <400> SEQUENCE: 11
222 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
223   1             5             10             15
225 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys
226           20             25             30
228 Lys Lys Lys Lys
229       35
232 <210> SEQ ID NO: 12
233 <211> LENGTH: 38
234 <212> TYPE: PRT
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
239     GLP-1 variant
241 <400> SEQUENCE: 12
242 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
243   1             5             10             15
245 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys
246           20             25             30
248 Lys Lys Lys Lys Lys Lys
249       35
252 <210> SEQ ID NO: 13
253 <211> LENGTH: 40
254 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
259     GLP-1 variant
261 <400> SEQUENCE: 13
262 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
263   1             5             10             15
265 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys
266           20             25             30
268 Lys Lys Lys Lys Lys Lys Lys Lys
269       35             40
272 <210> SEQ ID NO: 14
273 <211> LENGTH: 37
274 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

DATE: 09/12/2005

PATENT APPLICATION: US/10/517,563

TIME: 13:20:40

Input Set : A:\57738454.app

Output Set: N:\CRF4\09122005\J517563.raw

```

275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
279     GLP-1 variant
281 <400> SEQUENCE: 14
282 His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
283   1             5             10             15
285 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly Lys
286           20             25             30
288 Lys Lys Lys Lys Lys
289           35
292 <210> SEQ ID NO: 15
293 <211> LENGTH: 31
294 <212> TYPE: PRT
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
299     GLP-1 variant
301 <400> SEQUENCE: 15
302 His Ala Gln Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
303   1             5             10             15
305 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
306           20             25             30
309 <210> SEQ ID NO: 16
310 <211> LENGTH: 31
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
316     GLP-1 variant
318 <220> FEATURE:
319 <221> NAME/KEY: MOD_RES
320 <222> LOCATION: (3)
321 <223> OTHER INFORMATION: acetyl-Lys
323 <400> SEQUENCE: 16
324 His Ala Lys Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
325   1             5             10             15
327 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
328           20             25             30
331 <210> SEQ ID NO: 17
332 <211> LENGTH: 31
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
338     GLP-1 variant
340 <400> SEQUENCE: 17
341 His Ala Glu Gly Thr Phe Thr Ser Asp Thr Ser Lys Tyr Leu Glu Gly
342   1             5             10             15

```

VERIFICATION SUMMARY

DATE: 09/12/2005

PATENT APPLICATION: US/10/517,563

TIME: 13:20:41

Input Set : A:\57738454.app

Output Set: N:\CRF4\09122005\J517563.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date